22/72 PLUSPAT - (C) QUESTEL-ORBIT
PN - WO9423367 A1 19941013 [WO9423367]
TI - (A1) A METHOD FOR MAINTAINING A SEQUENCE OF EVENTS FUNCTION DURING **FAILOVER** IN A REDUNDANT **MULTIPLE** LAYER SYSTEM
OTI - (A1) METHODE PERMETTANT DE MAINTENIR UNE SEQUENCE D'EVENEMENTS FONCTIONS LORS D'UNE DEFAILLANCE DAND UN SYSTEME REDONDANT A COUCHES MULTIPLES
LA - ENGLISH (ENG)
PA - (A1) HONEYWELL INC (US)
IN - (A1) MCLAUGHLIN PAUL F; BANERJEE INDRA; MCCRACKEN KEVIN R
AP - WOUS9403707 19940405 [1994WO-US03707]
PR - US4292393 19930406 [1993US-0042923]
IC - (A1) **G06F-011/14**
EC - G06F-011/14A4C
DS - JP; AT (EP); BE (EP); CH (EP); DE (EP); DK (EP); ES (EP); FR (EP); GB (EP); GR (EP); IE (EP); IT (EP); LU (EP); MC (EP); NL (EP); PT (EP); SE (EP)
DT - Basic
CT - Cited in the search report
- EP434532(A)(Cat. X);EP351109(A)(Cat. A)
- See also references of EPA 0707722
STG - (A1) Publ. Of int. Appl. With int. Search rep
AB - In a process control system having a redundant multi-layer hierarchical **structure** , each **node** of a layer being redundant sequence of events inputs are received from field devices by an input/output processor (IOP). The IOP is a digital input sequence of events (DISOE) IOP, the IOP being the lowest layer of the hierarchical **structure** . The IOP interfaces with a controller at the next layer of the hierarchy. A method for reliably maintaining a sequence of events function during a **failover** of any of the redundant **nodes** , comprising the steps of maintaining a log, a circular list, by the local DISOE. The circular list is a rolling log of all sequence of events data for a predefined time period. When a **failover** occurs, the new primary **commands** an event recovery. The event recovery process freezes the log and uses the information in the log to recreate the events data. The freeze operation inhibits background purge activity for the log thereby avoiding the deletion of information past the defined time. New events data is still entered in the log. Once the log has been processed the freeze operation is negated. The recreated data is transmitted to the controller in accordance with a predefined protocol, thereby avoiding the loss of any events data as a result of the **failover**.